

INTERNATIONAL SEARCH REPORT

Int'l Application No
PCT/US2004/016431A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07F9/02 C07F9/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	COSTAMAGNA P ET AL: "Nafion<(>R) 115/zirconium phosphate composite membranes for operation of PEMFCs above 100°C" ELECTROCHIMICA ACTA, ELSEVIER SCIENCE PUBLISHERS, BARKING, GB, vol. 47, no. 7, 11 January 2002 (2002-01-11), pages 1023-1033, XP004332197 ISSN: 0013-4686 abstract; table 1; compound A	1-35
A	EP 1 191 621 A (GEESTHACHT GKSS FORSCHUNG) 27 March 2002 (2002-03-27) claim 1	1-35
X	WO 92/18592 A (CATALYTICA INC) 29 October 1992 (1992-10-29) claim 4; example 1	9

 Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

& document member of the same patent family

Date of the actual completion of the International search

Date of mailing of the International search report

26 October 2004

15/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax. (+31-70) 340-3016

Authorized officer

Seelmann, I

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 1191621	A	27-03-2002	DE EP	10047551 A1 1191621 A2		18-04-2002 27-03-2002
WO 9218592	A	29-10-1992	US EP JP WO	5241112 A 0580735 A1 6509555 T 9218592 A1		31-08-1993 02-02-1994 27-10-1994 29-10-1992